



## Maine Department of Environmental Protection

### Bureau of Land & Water Quality

#### O&M Newsletter

October 2007

A monthly newsletter for wastewater discharge licensees, treatment facility operators, and associated persons

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#### For Practice

1. The sensitivity of an instrument used to perform a laboratory test is a measure of
  - a. The accuracy of the average measurement
  - b. The precision of the median measurement
  - c. The accuracy of the smallest or largest measurement made
  - d. The values of all measurements repeatedly.
2. The basic unit of electrical potential is:
  - a. the watt
  - b. the ohm
  - c. the volt
  - c. the ampere

2. If water in a channel is passing a given point at 2.5 cubic feet per second, how many gallons of water will pass that point in 2 minutes?
  - a. 2,250 gallons
  - b. 1,865 gallons
  - c. 270 gallons
  - d. 33.75 gallons
4. What is the name of one chemical that can be added to a bacteriological sample to remove residual chloring from the sample?
  - a. Sodium hydroxide
  - b. Sodium thiosulphate
  - c. Sodium chloride
  - d. Sodium hexametaphosphate

#### Fall 2007 Exams

The Fall 2007 wastewater certification exam will be given on November, 14, 2007. The deadline that exam has passed. If you signed up to take the November exam, you will be receiving a letter from JETCC soon.

If you want to sit for the May, 2008 exam, contact JETCC and ask for an application. The date for that exam date is May 14, 2008.



## ***Approved Training***

October 18, 2007 in Fairfield, ME –  
Erosion Control – Sponsored by MRWA  
– Approved for 4 hours

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October 23, 2007 in Portland, ME –  
Applying Process Control Techniques to  
WWTF Operations – sponsored by  
JETCC – Approved for 6 hours

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October 24, 2007 in Presque Isle, ME –  
Pump Rebuild and Maintenance  
Workshop – sponsored by JETCC –  
Approved for 6 hours

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October 24, 2007 in Bangor, ME –  
Water Chemistry and Treatment  
Chemicals – Sponsored by MRWA –  
Approved for 4 hours

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October 30, 2007 in Bangor, ME –  
Basics of Electricity, Arc Flash  
Protection – sponsored by NEIWPC –  
Approved for 6 hours

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October 31, 2007 in Caribou, ME –  
Water Chemistry and Treatment  
Chemicals – Sponsored by MRWA –  
Approved for 4 hours

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November 7, 2007 in Presque Isle, ME –  
QA/QC of Laboratory equipment with  
Review of new *E. coli* methods –  
sponsored by JETCC – Approved for 6  
hours

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November 7, 2007 in Caribou, ME –  
Basic Water System Hydraulics –  
Sponsored by MRWA – Approved for 4  
hours

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Electrical Conservation & Electrical  
Safety

Hours: 8:30 -3:00

TCH: 5.0 Fee: \$20 pp

Dates & Locations November 7, 2007;  
Jay-Niles Memorial Library, Jay  
November 14, 2007; Kennebec Water  
District - WTP, Vassalboro

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November 8, 2007 in Presque Isle, ME –  
Wastewater Laboratory Analysis issues  
– sponsored by JETCC – Approved for 6  
hours

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November 15, 2007 in Saco, ME –  
Effective Management Practices for  
Supervisors and Operators – sponsored  
by JETCC – Approved for 6 hours

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November 27 or 28, 2007 in Gardiner,  
ME – Arc Flash CMP Electrical  
Safety/BLS Inspection – sponsored by  
JETCC – Approved for 6 hours

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December 4, 2007 in Brunswick, ME –  
Pump Station Retrofits and  
Troubleshooting – sponsored by JETCC  
– Approved for 6 hours

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December 6, 2007 in Waterville, ME –  
PVC Valves and Joining Overview–  
sponsored by JETCC – Approved for 6  
hours

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December 11 & 12, 2007 in Freeport,  
ME – MRWA Annual Conference –  
sponsored by MRWA – Approved hours  
depend on sessions attended.

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December 12, 2007 in Winthrop, ME –  
Mixerology 101– sponsored by JETCC –  
Approved for 6 hours

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Collection Systems: O & M and  
NEWEA Collection Systems Voluntary  
Certification Grades I –IV Hours: 8:30  
-3:30 TCH: 15.0 Fee: \$195 pp  
Date Jan. 8, 9, 10, 2008  
Location: Jeff P. Nixon Development  
Center, Portland Water District,  
Portland, ME

Note: JETCC stands for Joint  
Environmental Training Coordinating  
Committee – PO Box 487 –  
Scarborough, ME 04070-0487 – Tel  
(207) 253-8020

Efficiency Maine is a program of the  
Maine Public Utilities Commission - 18  
State House Station, Augusta, ME  
04333-0018  
Tel: 207-287-8350

MRWA stands for Maine Rural Water  
Association - 14 Maine Street, Box 36 -  
Brunswick, ME 04011 – Tel (207) 729-  
6569

NEIWPC stands for New England  
Interstate Water Pollution Control  
Commission – 116 John St. – Lowell,  
MA 01852-1124 – Tel (978) 323-7929

### Answers to *For Practice*:

1. c. The sensitivity of an instrument is that instrument's ability to measure a large or small quantity. For example, a pipette calibrated to 1/100 of a ml is more sensitive than a pipette calibrated to 1/10 of a ml.
2. c The volt is the unit used to express electrical potential.
3. a.  $2.5 \text{ CFS} \times 7.5 \text{ gallons/cubic foot} \times 60 \text{ seconds/minute} \times 2.0 \text{ minutes} = 2,250 \text{ gallons.}$
4. b. Sodium thiosulphate is the dechlorination agent normally used to remove residual chlorine from bacteriological samples.

